



## Healthy people 2100: Modeling population health impacts of climate change

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**Year:** 2008  
**Journal:** Climatic Change. 88 (1): 19-May

### Abstract:

Quantitatively estimating the potential health impacts of climate change is facilitated by multi-determinant models that integrate micro- to macro-level exposures and processes that influence disease occurrence, including the public health responses, in order to identify regions and population groups that may be more vulnerable. Although progress has been made in constructing systems-based models, considerable work is required to address key issues of quantification of the climate-health associations and the factors that affect those associations; specification of model(s) appropriate to incorporate climate change, adaptation, and mitigation policies; incorporation of thresholds; incorporation of pathways of public health development; and quantification of uncertainties.

**Source:** <http://dx.doi.org/10.1007/s10584-006-9233-0>

### Resource Description

#### Climate Scenario :

specification of climate scenario (set of assumptions about future states related to climate)

Special Report on Emissions Scenarios (SRES)

**Special Report on Emissions Scenarios (SRES) Scenario:** SRES A2

#### Exposure :

weather or climate related pathway by which climate change affects health

Air Pollution, Ecosystem Changes, Extreme Weather Event, Food/Water Security, Temperature

**Air Pollution:** Allergens, Ozone

**Extreme Weather Event:** Drought, Flooding, Landslides

**Food/Water Security:** Food Access/Distribution, Nutritional Quality

**Temperature:** Extreme Cold, Extreme Heat

#### Geographic Feature:

resource focuses on specific type of geography

Ocean/Coastal, Tropical, Urban

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## **Geographic Location:**

resource focuses on specific location

Global or Unspecified

## **Health Impact:**

specification of health effect or disease related to climate change exposure

Diabetes/Obesity, Infectious Disease, Injury, Morbidity/Mortality

**Infectious Disease:** Foodborne/Waterborne Disease, General Infectious Disease, Vectorborne Disease

**Foodborne/Waterborne Disease:** General Foodborne/Waterborne Disease, Other Diarrheal Disease

**Vectorborne Disease:** Mosquito-borne Disease

**Mosquito-borne Disease:** Malaria

## **Medical Community Engagement:**

resource focus on how the medical community discusses or acts to address health impacts of climate change

A focus of content

## **Mitigation/Adaptation:**

mitigation or adaptation strategy is a focus of resource

Adaptation

## **Model/Methodology:**

type of model used or methodology development is a focus of resource

Cost/Economic, Exposure Change Prediction, Methodology, Outcome Change Prediction

## **Resource Type:**

format or standard characteristic of resource

Review

## **Timescale:**

time period studied

Long-Term (>50 years)